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REPORT NO. 2

**Cotton Fiber and Processing Test Results**

**CROP of**

**1972**



**Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38117 September 1, 1972**

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1972

### Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service report the average values for medium staple samples tested from Southwest and Central Texas to date show about the same fiber length. Cottons are finer and weaker at zero gage strength. Shirley Analyzer nonlint content is about the same while picker and card waste is higher. Yarns spun from samples are slightly stronger and have a lower yarn appearance index. Also more imperfections were noted through the same period last year. Average spinning potential yarn number is higher.

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This is the second of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

Changes or additions to mailing lists should be sent to:

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Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through August 25, 1972

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results							
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.				
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections					
				Pct.			Rdg.	Mpsi				G/tex	Pct.	Lbs.	Index	No.
Short Staple: Southwest: 1971 1972	1	0.91	46	4.7	79	20	2.2	5.2	89	120	25	42				
	1	0.94	45	4.7	81	20	3.1	6.4	88	120	28	46				
	12	1.07	45	4.5	86	22	3.0	5.3	104	123	19	61				
	9	1.07	46	4.1	83	22	3.2	6.0	106	118	22	65				
Medium Staple: Southwest: 1971 1972																
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3				

1/ Based on a limited number of samples of modal quality  
2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

Production Area, Classification & Sample Number			Fiber Test Results										Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten- tial	
						Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx		
			No	Grade	2.5% span	Unif	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Pct	Pct	No	No	No	No	No
Name & Code			Stple	In	Pct																	
			32s																			

SOUTHWEST  
SOUTH TEXAS

TAFT  
1 SLM LT SP 42 32 0.94 45 4.7 81 LANKART 611 20 6.9 3.1 3 4 6.4 296 88 7.5 6.5 130 120 47 32 46

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Name & Code	Style	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- ial	
				2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	Pct	Pct	22s or 27 tx	50s or 12 tx	No	No		No
				32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	
SOUTHWEST AREA																							
SOUTH TEXAS																							
ALAMO																							
1	SLM	LT SP	42	34	1.06	47	4.4	81	20	6.5	3.1	3	4	6.6	100	35	6.2	4.7	120	90	22	18	61
STONEVILLE 213																							
DANEVANG																							
1	SLM		41	35	1.07	44	4.1	83	22	6.4	3.2	2	3	6.5	109	41	6.6	5.2	120	90	22	15	69
2	SLM		41	35	1.11	48	4.1	84	23	6.7	3.3	2	3	6.2	117	47	7.1	6.6	120	100	24	16	74
DELTA PINE 16																							
HARLINGEN																							
2	LM		51	34	1.06	46	4.0	89	23	6.0	4.0	3	2	6.2	109	41	6.5	5.3	120	100	19	15	64
STONEVILLE 7A																							
SAN JUAN																							
3	SLM	LT SP	42	34	1.07	45	4.2	83	21	5.6	3.8	3	4	5.4	100	37	6.2	4.7	120	90	22	16	64
TPSA 1633																							
100 PERCENT *																							
CENTRAL TEXAS																							
BATESVILLE																							
1	SLM		41	34	1.09	47	4.6	84	22	6.9	2.6	2	3	5.7	113	43	6.8	5.8	120	90	20	18	66
STONEVILLE 213																							

\* 100 percent selected for tests, less than 100 percent in the area.

